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PATENT

Attorney Reference Number 6541-60663-01
Application Number 09/703,858

Claims

1-7. (cancelled)

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8. (original) A method of activating a mobile station for communicating with a telecommunications network, comprising the steps of:

- (a) receiving a temporary activation mobile station ID and ESN from a mobile station at a mobile switching center and sending a registration notification to an over-the-air activation function;
- (b) verifying the temporary activation mobile station ID and sending a registration notification from the over-the-air activation function containing the permanent mobile station ID to the mobile switching center;
- (c) communicating a permanent mobile station ID to the mobile station;
- (d) receiving the permanent mobile station ID and ESN from the mobile station at the mobile switching center;
- (e) verifying the permanent mobile station ID; and sending a registration notification to a home location register assigned to the permanent mobile station ID; and
- (f) the over-the-air activation function sending programming data to the serving mobile switching center identified by the home location register;
- (g) the mobile switching center sending a SPACH notification of R-data to the mobile station;
- (h) the serving mobile switching center receiving a SPACH confirmation from the mobile station; and
- (i) the mobile switching center sending programming data to the mobile station.

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9. (previously presented) A method of activating a mobile station for communicating with a telecommunications network, comprising the steps of:

(a) receiving a temporary activation mobile station ID and an ESN from a mobile station, wherein the temporary activation mobile station ID and the ESN are received at a mobile switching center, and a registration notification is sent to an over-the-air activation function;

(b) verifying the temporary activation mobile station ID, wherein a registration notification containing the permanent mobile station ID is sent from the over-the-air activation function to the mobile switching center;

(c) communicating a permanent mobile station ID to the mobile station;

(d) receiving the permanent mobile station ID and ESN from the mobile station at the mobile switching center;

(e) verifying the permanent mobile station ID, wherein a registration notification is sent by the mobile switching center to a home location register assigned to the permanent mobile station ID; and

(f) communicating programming data to the mobile station, wherein:

the over-the-air activation function sends programming data to the mobile switching center identified by the home location register;

the mobile switching center sends a SPACH notification of R-data to the mobile station;

the mobile switching center receives SPACH confirmation from the mobile station;

the mobile switching center sends programming data to the mobile station;

the mobile switching center receives from the mobile station an acknowledgement of receipt of the programming data; and

the mobile switching center notifies the over-the-air activation function of a successful

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download of programming data to the mobile station.

10-15. (cancelled)

16. (previously presented) A method of activating a mobile station for communicating with a telecommunications network, comprising the steps of:

- (a) receiving a temporary activation mobile station ID and an ESN of the mobile station at a mobile switching center, and sending a registration notification to an over-the-air activation function;
- (b) verifying the temporary activation mobile station ID by sending a registration notification containing the permanent mobile station ID from the over-the-air activation function to the mobile switching center;
- (c) communicating a permanent mobile station ID to the mobile station;
- (d) receiving the permanent mobile station ID and ESN from the mobile station at the mobile switching center;
- (e) verifying the permanent mobile station ID by sending, from the mobile switching center, a registration notification to a home location register assigned to the permanent mobile station ID;
- (f) the over-the-air activation function sending programming data to the mobile switching center identified by the home location register;
- (g) the mobile switching center sending a SPACH notification of R-data to the mobile station; the mobile switching center receiving SPACH confirmation from the mobile station;
- (h) the mobile switching center sending programming data to the mobile station;
- (i) the mobile switching center receiving from the mobile station an acknowledgement of

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receipt of the programming data; and

(j) the mobile switching center notifying the over-the-air activation function of a successful download of programming data to the mobile station.

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